

Project 5023
Small Grains Investigations

All work with small grains, wheat, oats, or barley, is carried on under this project, whether fall or spring seeded, irrigated or dry, on or off station.

The 59-60 budget for this work is \$4614.45.

Work done and results included in this report in the order listed is as follows:

Winter Wheat

Western Regional Hard Red	Station	25	Varieties
Intrastate Hard Red	Station	25	"
Short or stiff straw winter	Station	11	"
Off-Station winter wheat	Sanders County	10	"
" " " "	Lake "	10	"
" " " "	Ravalli "	10	"
" " " "	Missoula "	10	"
" " " "	Mineral "	10	"
Foundation Seed Production	Station		
Winter Wheat Summary and Comments			

Spring Wheat

Advance Yield Spring Wheat	Station	20	Varieties	Irrigated
Advance Yield Spring Wheat	Station	20	"	Dryland
Western Regional White Wheat	Station	15	"	Dryland
Off-Station Spring Wheat	Lake County	10	"	Irrigated
Off-Station Spring Wheat	Ravalli County	10	"	Irrigated
Off-Station Spring Wheat	Missoula County	10	"	Dryland
Off-Station Spring Wheat	Mineral County	10	"	Dryland
Single rows of Idaho Selections				
Foundation Seed Production --- Wheat Quality Plots				
Spring Wheat Summary and Comments				

Winter Barley

Male-sterile Character.

Spring Barley

Malting and Advance Yield	Station	10	Varieties	Irrigated
Intrastate and Station	Station	25	"	Irrigated
Advance Yield	Station	9	"	Dryland
Intrastate and Station	Station	25	"	Dryland
Off-Station Barley	Lake County	10	"	Irrigated
Off-Station Barley	Ravalli County	10	"	Irrigated
Off-Station Barley	Missoula County	10	"	Dryland
Off-Station Barley	Mineral County	10	"	Dryland
Barley Feed Strips		6	"	Dry. & Irrig.

Intrastate Hard ^Red Winter Wheat N. W. Mont. Branch 1959
 Seeded Sept. 18, 1958 Harvested Aug. 10, 1959 16 ft.

Variety	No.	% Stand	Head Date	Grams per Plot in Reps.				Total	Bu/A	Lb/Bu.
				1	2	3	4			
Columbia	12928	90	6/16	545	350	495	585	1975	49.4	65.5
Westmont	12930	80	6/15	670	440	475	545	2130	53.3	64.5
Rego	13181	90	6/18	600	490	560	575	2225	55.6	62.25
Itana	12933	85	6/18	565	400	505	550	2020	50.5	64.0
Burt	12696	85	6/16	590	430	475	630	2125	53.1	64.5
Wasatch	11925	80	6/15	445	360	475	510	1790	44.8*	63.5
Yogo	8033	95	6/18	465	330	400	630	1825	45.6*	62.25
Cheyenne	8885	90	6/19	590	405	485	590	2070	51.8	64.00
Chey. 57	13426	100	6/19	595	375	555	570	2095	52.4	64.25
Newturk	6935	90	6/16	435	290	570	585	1880	47.0	64.0
Karmont	6700	80	6/19	375	385	475	580	1815	45.4*	62.75
Triplet	5408	100	6/16	405	320	445	605	1775	44.4*	63.5
Omar	13072	100	6/20	565	370	645	640	2220	55.5	62.75
YxTx0 - 9		80	6/20	500	375	425	420	1720	43.0**	63.0
YTO 10		85	6/20	445	330	465	550	1790	44.8*	63.0
YTO 14		95	6/20	425	390	475	510	1800	45.0*	63.25
YTO 27		90	6/21	435	430	430	555	1850	46.3*	62.5
YTO 29		80	6/22	470	355	480	465	1770	44.3*	63.5
YTO 46		100	6/20	545	450	485	515	1995	49.9	62.75
YTO 60		90	6/20	440	460	500	570	1970	49.3	63.0
YTO 66		95	6/19	455	350	475	530	1810	45.3*	62.5
YTO 117		100	6/18	385	390	520	575	1870	46.8*	62.75
Itana (Mont Sel)		75	6/17	550	420	535	595	2100	52.5	64.0
YxR20xW 904		90	6/18	390	300	435	370	1495	37.4**	63.25
YR20W 857		90	6/16	505	265	445	515	1730	43.3*	64.5

* Varieties yielding significantly less than Westmont (5%).
 ** Varieties yielding significantly less than Westmont (1%).

Mean Yield.... 47.9
 S.E.x̄. 2.65485
 L.S.D. (5%)... 7.5
 L.S.D. (1%)... 10.0
 C.V. 5.54%

Analysis of Variance

Source	D.F.	Mean Square	F
Replications	3	130210.933	46.186**
Variety	24	7963.167	2.825**
Error	72	2819.250	
Total	99		